

SUMIT GHOSH

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Linkedin

Github

Codeforces

LeetCode

Portfolio

EDUCATION

Indian Institute of Technology (BHU) Varanasi

2021 – 2025

B.Tech - Mechanical engineering - **CGPA - 8.06**

Varanasi, Uttar Pradesh

TECHNICAL SKILLS

Languages/Dev Tools: C++, Python, SQL, Golang, Linux, Git, Github, Docker, Blockchain

Development Frameworks: ReactJS, NextJS, NodeJS, ExpressJS, Django, Gin Web Framework, Firebase

Interests: Data Structures and Algorithms, Competitive Programming, Web Development, Open Source, OOPS, DBMS, OS

EXPERIENCE

Intern at Neuronexus Innovations

May 2024 - July 2024

Role - *Web Developer*

Remote

- Migrated the job portal from **React.js** to **Next.js**, enhancing performance with **SSR** and **SSG**, reducing load times.
- Leveraged **SSR** in Next.js to improve **SEO** by enabling search engines to index dynamic job details, company profiles, and search results, increasing organic traffic.
- Rewrote and optimized component logic to enhance code maintainability and reusability.
- Enhanced website responsiveness with a mobile-first approach and used **TailwindCSS** for consistent styling.

PROJECTS

AgroKart | React.js, Node.js, Express.js, TailwindCSS, Firestore, GCP

- Developed a **CRUD** app connecting farmers with buyers and service providers for direct sales and market access.
- Built **APIs** and **Middleware** to optimize data processing and boost performance and scalability.
- Deployed the entire application on **Linux-based VM instances** on **Google Cloud Platform**.

Secure Voting System | Blockchain, Ethereum, Smart Contracts, Solidity

- Built a **blockchain voting platform**, enhancing security protocols with a 75% decrease in system vulnerabilities.
- Implemented decentralized code architecture, leveraging **Smart Contracts** to streamline transaction processes and remove intermediaries, enhancing transaction security and resulting in a 40% decrease in fraudulent activities.
- Developed and implemented a **Web3 API** integration to establish seamless communication with **Smart Contracts**.

Path Finder | HTML, CSS, JavaScript, Graph Algorithms

- Developed a website called **Path Finder** that helps in visualizing various **Path Finding Algorithms**.
- Utilized algorithms such as **BFS**, **DFS**, **Dijkstra**, and **Best First Search** to visualize the path from source to destination on a grid.
- Added features such as random maze generation, counting path nodes, and visited nodes.

HONOURS AND ACHIEVEMENTS

- Specialist at **Codeforces** with a rating of **1418** — Handle: HoLaAmIgOs
- 3-Star Coder at **CodeChef** with a rating of **1702** — Handle: dark_knight_47
- Solved **650+** problems on **LeetCode** — Handle: Z-gen
- Ranked **32nd** globally in **HackSquad** with team LIONAJ0, contributing **149 open-source contributions**.
- Completed **Hacktoberfest 2023**, highlighting commitment to open-source and community efforts.
- Made **450+** contributions on **GitHub**, including contributions to the **Rocket.Chat** organization with **10+ merged PRs**.